

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10 (cancelled)

11. (New) A device for moving and positioning an object in space, the device comprising
- a base element (1),
 - at least three motor/gearing units (5) disposed on the base element (1),
 - a common supporting element (3) on which at least one gripping means for gripping of an object is disposed,
 - at least three arms (2) each having a first end connected to a motor/gearing unit (5) and a second end hinge-connected to the common supporting element (3),
 - the motor/gearing units (5) being disposed in such a manner in a plane defined by the base element (1) or in a plane running parallel thereto that they form the sides of an imaginary polygon,
 - the motor/gearing unit (5) having a gearing (52), at least one gear step of which is tensioned, and
 - the gearing (52), by virtue of material-locking and/or positive-locking connection of gearing components, being free or virtually free from backlash over the whole of the motional range of the gearing (52).

12. **(New)** The device as claimed in claim 11, wherein precisely three arms (2) and precisely three motor/gearing units (5) are present, and wherein one each of the motor/gearing units (5) is disposed on one side each of an imaginary triangle.

13. **(New)** The device as claimed in claim 12, wherein the imaginary triangle is equilateral.

14. **(New)** The device as claimed in claim 11, further comprising a telescopic fourth shaft (4) connected to the carrier element (3).

15. **(New)** The device as claimed in claim 12, further comprising a telescopic fourth shaft (4) connected to the carrier element (3).

16. **(New)** The device as claimed in claim 13, further comprising a telescopic fourth shaft (4) connected to the carrier element (3).

17. **(New)** The device as claimed in claim 11, wherein the motor/gearing unit (5) comprises at least one gear step, at least one of these gear steps, preferably all, having coaxially running rotation axes on the drive side and the power-take-off side, and a motor (50) which is coaxially connected to this at least one gear step.

18. **(New)** The device as claimed in claim 12, wherein the motor/gearing unit (5) comprises at least one gear step, at least one of these gear steps, preferably all, having coaxially running rotation axes on the drive side and the power-take-off side, and a motor (50) which is coaxially connected to this at least one gear step.

19. **(New)** The device as claimed in claim 11, wherein the gearing (52) is a planetary gearing, and wherein the planetary gearing has planet wheels which mesh between a sun wheel and a ring wheel, are respectively fixed by a planet wheel bolt to a planet carrier and are mounted rotatably about the respective planet wheel bolt.

20. **(New)** The device as claimed in claim 17, wherein the gearing (52) is a planetary gearing, and wherein the planetary gearing has planet wheels which mesh between a sun wheel and a ring wheel, are respectively fixed by a planet wheel bolt to a planet carrier and are mounted rotatably about the respective planet wheel bolt.

21. **(New)** The device as claimed in claim 11, wherein the gearing (52) is a planetary gearing, and wherein the planetary gearing has planet wheels which mesh between a sun wheel and a ring wheel, the axes of the planet wheels being arranged offset in comparison to the axis of the sun wheel.

22. **(New)** The device as claimed in claim 12, wherein the gearing (52) is a planetary gearing, and wherein the planetary gearing has planet wheels which mesh between a sun wheel and a ring wheel, the axes of the planet wheels being arranged offset in comparison to the axis of the sun wheel.

23. **(New)** The device as claimed in claim 17, wherein the gearing (52) is a planetary gearing, and wherein the planetary gearing has planet wheels which mesh between a sun wheel and a ring wheel, the axes of the planet wheels being arranged offset in comparison to the axis of the sun wheel.

24. **(New)** The device as claimed in claim 11, wherein the gearing (52) is of single-step or multi-step configuration.

25. **(New)** The device as claimed in claim 17, wherein the gearing (52) is of single-step or multi-step configuration.

26. **(New)** The device as claimed in claim 19, wherein the gearing (52) is of single-step or multi-step configuration.

27. **(New)** The device as claimed in claim 11, wherein the gearing (52) is a combined spur-planetary gearing, at least one gear step being present, the drive-side axis of which runs axially offset relative to its axis on the power-take-off side.

28. **(New)** The device as claimed in claim 11, wherein the at least one tensioned gear step is tensioned in a rotationally symmetric manner.

29. **(New)** The device as claimed in claim 17, wherein the at least one tensioned gear step is tensioned in a rotationally symmetric manner.

30. **(New)** The device as claimed in claim 19, wherein the at least one tensioned gear step is tensioned in a rotationally symmetric manner.